

IN THE CLAIMS

Kindly amend the claims set forth in the preliminary amendment filed May 31, 2007 as follows:

1. (Previously Submitted) Device for generation of microwaves comprising a coaxial virtual cathode oscillator with a rotation symmetrical, outer, cylindrical tube around a central axis forming a cathode and connected to a transmission line for supplying the cathode with voltage pulses, and an inner cylindrical tube, at least partially transparent for electrons, forming an anode and connected to a transmission device for outputting microwave radiation generated by the formation of a virtual cathode inside an area enclosed by the anode, wherein the cathode comprises a cylindrical centre conductor arranged to coincide with the centre axle for the outer cylindrical tube and in electrically conductive connection with the outer cylindrical tube.
2. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the cylindrical centre conductor has a circular-cylindrical form.
3. (Currently Amended) ~~Device~~ The device as claimed in Claim 2, wherein the circular-cylindrical centre conductor is at least partially surrounded by a dielectric material disposed in the anode's waveguide for outputting microwave radiation.
4. (Currently Amended) ~~Device~~ The device as claimed in claim 3, wherein the dielectric material is composed of a plastic material.
5. (Currently Amended) ~~Device~~ The device as claimed in Claim 3, wherein the dielectric material is composed of a ceramic material.
6. (Cancelled)
7. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the one end of

the cylindrical centre conductor is electrically and mechanically connected to a central part of a first electrically conductive wall arranged on the inside of the cathode's cylindrical tube transverse to the longitudinal direction of the tube at a distance from the anode's for the electrons electron's at least partially transparent, tube.

8. (Currently Amended) Device The device as claimed in Claim 7, wherein another electrically conductive wall is arranged on the outside of the anode's for the electrons electron's at least partially transparent, tube transverse to the longitudinal direction and at a distance from the cathode cylindrical tube.
9. (Currently Amended) Device The device as claimed in Claim 1, wherein the cylindrical centre conductor essentially consists of metal, such as aluminium, copper, or steel.
10. (Currently Amended) Device The device as claimed in Claim 1, wherein the transmission line for feeding the cathode is connected to a high voltage generator.
11. (Currently Amended) Device The device as claimed in Claim 10, wherein the high voltage generator is a Marx generator.
12. (Currently Amended) Device The device as claimed in Claim 1, wherein the transmission device for outputting microwave radiation is connected to an antenna.
13. (Currently Amended) Device The device as claimed in Claim 10, wherein the antenna is a horn antenna.
14. (Currently Amended) Device The device as claimed in Claim 1, wherein the anode is composed, at least partially, of mesh.
15. (Currently Amended) Device The device as claimed in Claim 1, wherein the anode is composed, at least partially, of a thin foil.

16. (Currently Amended) Device The device as claimed in Claim 1, wherein the transmission device for outputting microwave radiation to a load comprises at least parts of the inner cylindrical tube as well as a dielectric arranged in the inside of the tube.
17. (Currently Amended) Device The device as claimed in Claim 1, wherein the transmission device for outputting microwave radiation to a load comprises a waveguide arranged between the anode and the load.
18. (Currently Amended) Device The device as claimed in Claim 1, wherein the centre conductor is hollow.